

**ABSTRACT**

A traffic signal control method and system reduces the delay time of a transit vehicle at an intersection by incorporating an automatic vehicle location (AVL) system to trigger a traffic signal priority (TSP) strategy with a chain of mobile events to determine the correct timing, location, conditions, and/or other mobile events that may trigger a TSP action. The traffic signal control can also be used to notify vehicle status in passenger/traveler information systems such as street signs, to monitor the wait time at an intersection or bus stop, and in any application that relates to vehicle entry into a given location and a consequence of actions that may be associated with the location.

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